

Form

Drinking Water and Groundwater Protection Division

Safety Issues Transient Non-Community Drinking Water Systems

The presence of electrical components and pressurized water, and the potential presence of confined spaces (e.g. tanks), chemicals (e.g. sodium hypochlorite), excavations (e.g. waterlines), or general construction activities on the water system can present significant safety risks. Regulations authorized by the Occupation Safety and Health Act (OSHA) contains requirements for proper work procedures; contact VOSHA (802 828 2765) with questions on how to comply with OSHA. In particular, work in confined spaces typically requires specially trained personnel and specialized equipment; see the following link for guidance on working in confined spaces (http://www.dol.gov/elaws/osha/confined/menu.asp). The following is a listing of the most common safety issues for TNC systems, and preventive steps to avoid accidents.

Issues F	Preventive steps
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Sprains/Strains Clean, dry, uncluttered, well lit work area

Lifting injuries Proper lifting technique

Split up load into lighter amounts

Electrical shocks Use qualified electrician or pump service technician

Turn off circuit at circuit breaker prior to work

Use non-conductive materials (e.g. clothing, floor mats) and tools

Pressurized water Relieve system pressure prior to work; verify with a pressure gauge

Operate valves slowly Wear safety glasses

Confined spaces Determine classification of confined space

Verify air quality with meters (% oxygen, chlorine, carbon monoxide)

Provide adequate air ventilation

For tanks, turn off pumps to insure water does not enter tank

Do not work alone

Provide safety harness and hoist if space deeper than 5 feet

Chemicals Read MSDS sheet, and keep copy of MSDS sheet in use area

Properly store: covered, proper temperature, no sun, spill containment

Label smaller quantity storage containers

Wear protective equipment (safety glasses, gloves, apron) Provide adequate ventilation, particularly with chlorine

Do not mix chemicals, particularly sodium hypochlorite (bleach) with either acids (e.g. muriatic/hydrochloric acid, vinegar) or ammonia

Excavations Contact Dig-Safe at 888 344 7233 two or more days prior to excavation

Use shoring/trench boxes for excavations 4 to 5 feet deep or greater

This guidance and related environmental information are available electronically via the internet. For information visit us through the Vermont Homepage at http://www.vermont.gov or visit DWGPD directly at http://www.vermontdrinkingwater.org

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